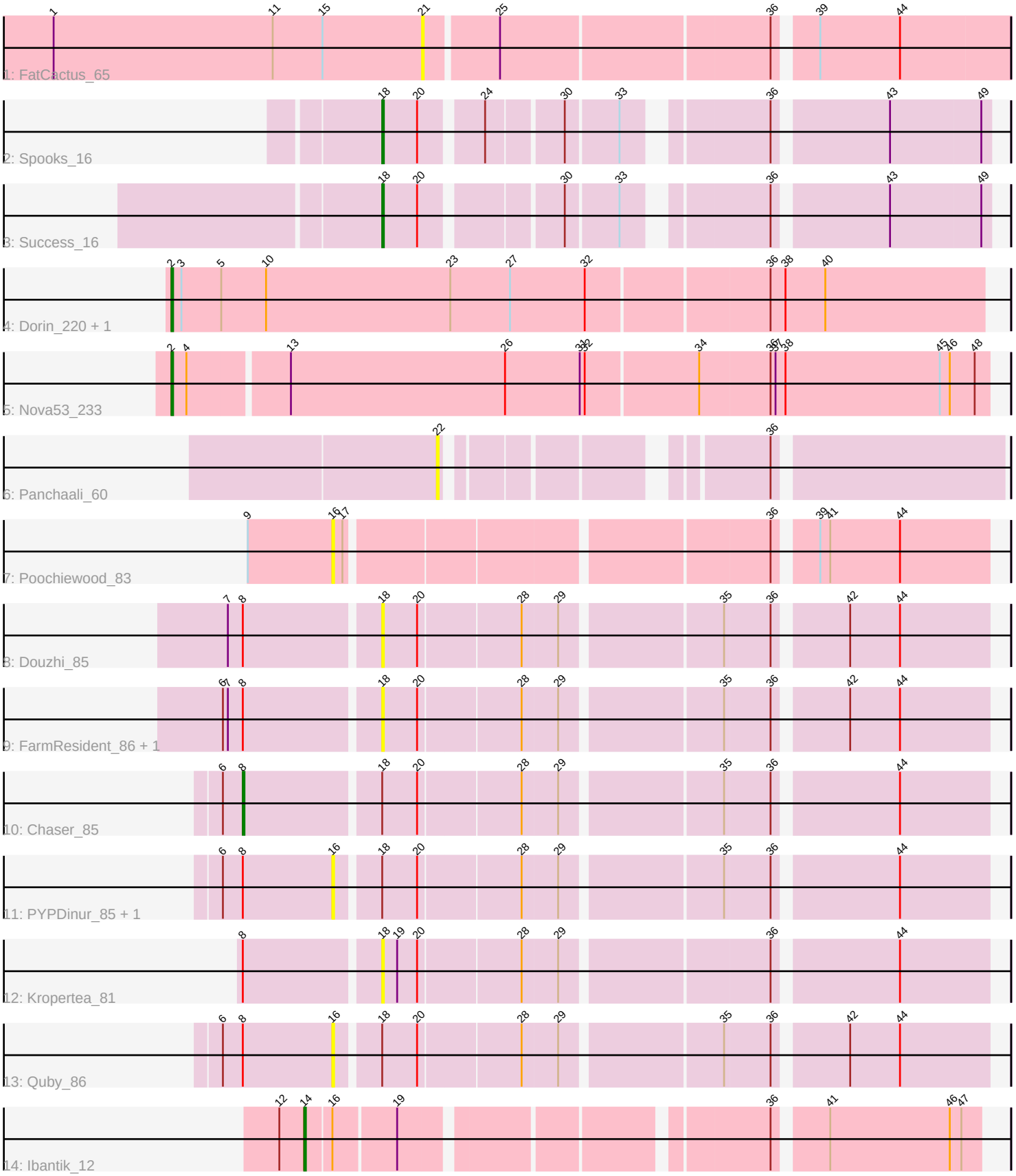
Pham 284257


1: FatCactus_65
2: Spooks_16
3: Success_16
4: Dorin_220 + 1
5: Nova53_233
6: Panchaali_60
7: Poochiewood_83
8: Douzhi_85
9: FarmResident_86 + 1
10: Chaser_85
11: PYPDinur_85 + 1
12: Kropertea_81
13: Quby_86
14: Ibantik_12

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 284257 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284257 has 17 members, 10 are drafts.

Phages represented in each track:
• Track 1 : FatCactus_65
• Track 2 : Spooks_16
• Track 3 : Success_16
• Track 4 : Dorin_220, Francesca_221
• Track 5 : Nova53_233
• Track 6 : Panchaali_60
• Track 7 : Poochiewood_83
• Track 8 : Douzhi_85
• Track 9 : FarmResident_86, Sheng711_86
• Track 10 : Chaser_85
• Track 11 : PYPDinur_85, BrainDrainer_86
• Track 12 : Kropertea_81
• Track 13 : Quby_86
• Track 14 : Ibantik_12

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 2, it was called in 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dorin_220, Francesca_221, Nova53_233,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• BrainDrainer_86, Chaser_85, Douzhi_85, FarmResident_86, FatCactus_65, Ibantik_12, Kropertea_81, PYPDinur_85, Panchaali_60, Poochiewood_83, Quby_86, Sheng711_86, Spooks_16, Success_16,

Summary by start number:

Start 2:

• Found in 3 of 17 (17.6%) of genes in pham
• Manual Annotations of this start: 3 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_220 (CG), Francesca_221 (CG), Nova53_233 (CG),

Start 8:
• Found in 8 of 17 (47.1%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Chaser_85 (L4),

Start 14:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_12 (singleton),

Start 16:
• Found in 5 of 17 (29.4%) of genes in pham
• No Manual Annotations of this start.
• Called 80.0% of time when present
• Phage (with cluster) where this start called: BrainDrainer_86 (L4), PYPDinur_85 (L4), Poochiewood_83 (L1), Quby_86 (L4),

Start 18:
• Found in 10 of 17 (58.8%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Douzhi_85 (L4), FarmResident_86 (L4), Kropertea_81 (L4), Sheng711_86 (L4), Spooks_16 (BT), Success_16 (BT),

Start 21:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FatCactus_65 (A20),

Start 22:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Panchaali_60 (FC),

Summary by clusters:

There are 7 clusters represented in this pham: A20, singleton, CG, BT, L4, FC, L1,

Info for manual annotations of cluster BT:
•Start number 18 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster CG:

•Start number 2 was manually annotated 3 times for cluster CG.

Info for manual annotations of cluster L4:
•Start number 8 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: BrainDrainer_86 Start: 55106, Stop: 55468, Start Num: 16
Candidate Starts for BrainDrainer_86:
(6, 55040), (Start: 8 @55052 has 1 MA's), (16, 55106), (Start: 18 @55130 has 2 MA's), (20, 55151), (28, 55208), (29, 55229), (35, 55319), (36, 55346), (44, 55415),

Gene: Chaser_85 Start: 54673, Stop: 55089, Start Num: 8
Candidate Starts for Chaser_85:
(6, 54661), (Start: 8 @54673 has 1 MA's), (Start: 18 @54751 has 2 MA's), (20, 54772), (28, 54829), (29, 54850), (35, 54940), (36, 54967), (44, 55036),

Gene: Dorin_220 Start: 115745, Stop: 116227, Start Num: 2
Candidate Starts for Dorin_220:
(Start: 2 @115745 has 3 MA's), (3, 115751), (5, 115775), (10, 115802), (23, 115913), (27, 115949), (32, 115994), (36, 116099), (38, 116108), (40, 116132),

Gene: Douzhi_85 Start: 54789, Stop: 55127, Start Num: 18
Candidate Starts for Douzhi_85:
(7, 54702), (Start: 8 @54711 has 1 MA's), (Start: 18 @54789 has 2 MA's), (20, 54810), (28, 54867), (29, 54888), (35, 54978), (36, 55005), (42, 55044), (44, 55074),

Gene: FarmResident_86 Start: 54528, Stop: 54866, Start Num: 18
Candidate Starts for FarmResident_86:
(6, 54438), (7, 54441), (Start: 8 @54450 has 1 MA's), (Start: 18 @54528 has 2 MA's), (20, 54549), (28, 54606), (29, 54627), (35, 54717), (36, 54744), (42, 54783), (44, 54813),

Gene: FatCactus_65 Start: 40805, Stop: 40473, Start Num: 21
Candidate Starts for FatCactus_65:
(1, 41027), (11, 40895), (15, 40865), (21, 40805), (25, 40763), (36, 40607), (39, 40586), (44, 40538),

Gene: Francesca_221 Start: 116394, Stop: 116876, Start Num: 2
Candidate Starts for Francesca_221:
(Start: 2 @116394 has 3 MA's), (3, 116400), (5, 116424), (10, 116451), (23, 116562), (27, 116598), (32, 116643), (36, 116748), (38, 116757), (40, 116781),

Gene: Ibantik_12 Start: 5154, Stop: 4792, Start Num: 14
Candidate Starts for Ibantik_12:
(12, 5169), (Start: 14 @5154 has 1 MA's), (16, 5139), (19, 5103), (36, 4908), (41, 4881), (46, 4809), (47, 4803),

Gene: Kropertea_81 Start: 54741, Stop: 55079, Start Num: 18
Candidate Starts for Kropertea_81:

(Start: 8 @54663 has 1 MA's), (Start: 18 @54741 has 2 MA's), (19, 54750), (20, 54762), (28, 54819), (29, 54840), (36, 54957), (44, 55026),

Gene: Nova53_233 Start: 121074, Stop: 121556, Start Num: 2
Candidate Starts for Nova53_233:
(Start: 2 @121074 has 3 MA's), (4, 121083), (13, 121140), (26, 121269), (31, 121314), (32, 121317), (34, 121383), (36, 121425), (37, 121428), (38, 121434), (45, 121527), (46, 121533), (48, 121548),

Gene: PYPDinur_85 Start: 55358, Stop: 55720, Start Num: 16
Candidate Starts for PYPDinur_85:
(6, 55292), (Start: 8 @55304 has 1 MA's), (16, 55358), (Start: 18 @55382 has 2 MA's), (20, 55403), (28, 55460), (29, 55481), (35, 55571), (36, 55598), (44, 55667),

Gene: Panchaali_60 Start: 22071, Stop: 22361, Start Num: 22
Candidate Starts for Panchaali_60:
(22, 22071), (36, 22230),

Gene: Poochiewood_83 Start: 55082, Stop: 55444, Start Num: 16
Candidate Starts for Poochiewood_83:
(9, 55031), (16, 55082), (17, 55088), (36, 55322), (39, 55343), (41, 55349), (44, 55391),

Gene: Quby_86 Start: 54686, Stop: 55048, Start Num: 16
Candidate Starts for Quby_86:
(6, 54620), (Start: 8 @54632 has 1 MA's), (16, 54686), (Start: 18 @54710 has 2 MA's), (20, 54731), (28, 54788), (29, 54809), (35, 54899), (36, 54926), (42, 54965), (44, 54995),

Gene: Sheng711_86 Start: 54858, Stop: 55196, Start Num: 18
Candidate Starts for Sheng711_86:
(6, 54768), (7, 54771), (Start: 8 @54780 has 1 MA's), (Start: 18 @54858 has 2 MA's), (20, 54879), (28, 54936), (29, 54957), (35, 55047), (36, 55074), (42, 55113), (44, 55143),

Gene: Spooks_16 Start: 10305, Stop: 9985, Start Num: 18
Candidate Starts for Spooks_16:
(Start: 18 @10305 has 2 MA's), (20, 10284), (24, 10251), (30, 10209), (33, 10179), (36, 10107), (43, 10044), (49, 9990),

Gene: Success_16 Start: 9522, Stop: 9202, Start Num: 18
Candidate Starts for Success_16:
(Start: 18 @9522 has 2 MA's), (20, 9501), (30, 9426), (33, 9396), (36, 9324), (43, 9261), (49, 9207),